

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) An imaging system comprising:

an image input device for entering image data from an original image,

an image processing device for processing said image data to produce an output image,

an image output device for outputting said output image as a hard copy or as data file,

[[and]]

a resolution adjusting device for automatically adjusting an input resolution of said image input device in accordance with an output resolution of said image output device, a size or data pixel number of said output image, and a size of said original image, and

a monitor for displaying a main display area, a first sub display area, and a second sub display area simultaneously, and said main display area displaying an image as entered through said image input device, and a crop boundary on said entered image to designate a cropping area of said entered image, wherein image data of said cropping area is used for producing said output image, said first sub display area displaying a template image of a template that shows a layout for said output image, and said second sub display area displaying a thumbnail image of said entered image.

2. (canceled).

3. (currently amended) An imaging system as recited in claim ~~[[2]]~~ 1, further comprising a device for modifying the size or position of said crop boundary on said monitor.

4. (previously presented) An imaging system as recited in claim 3, further comprising a file reader device for reading image data from an image file, wherein said resolution adjusting device converts the data pixel number of said image data read by said file reader device to a value determined according to the output resolution of said image output device, the size or data pixel number of said output image and said cropping area.

5. (original) An imaging system as recited in claim 1, wherein said image input device includes a scanner, and said image output device includes a printer, and wherein said resolution adjusting device calculates an input resolution for said scanner on the basis of an output resolution of said printer, a size of an area to be read out by said scanner from said original image, and a print size of said output image.

6. (original) An imaging system as recited in claim 5, wherein there are a plurality of predetermined input resolutions available for said scanner, and said resolution adjusting device sets said scanner at one of said predetermined input resolutions that is the nearest to said calculated resolution, or a value less than and nearer to said calculated resolution, or a value more than and nearer to said calculated resolution.

7. (currently amended) An imaging system as recited in claim [[2]] 1, wherein said image processing device produces a synthetic image as said output image from a plurality of images entered through said image input device, by designating [[a]] said cropping area of each of said original images and pasting said cropping area in a respective one of pasting frames of a template that shows a layout for said synthetic image.

8. (currently amended) An imaging system as recited in claim 7, wherein ~~said monitor~~ further has a sub display area for displaying a template image of said template, and images pasted in said pasting frames are displayed in said template image sequentially in a real time fashion, and wherein said crop boundary displayed on said entered image has a similar shape to one of said pasting frames that is selected by selecting a corresponding frame of said template image on said second sub display area.

9. (original) An imaging system as recited in claim 8, further comprising a frame modifying device for modifying the size or position of any of said pasting frames of said template.

10. (original) An imaging system as recited in claim 9, wherein said resolution adjusting device adjusts the input resolution for each of said entered images to be synthesized, in accordance with the output resolution of said image output device, the size of said cropping area of each of said entered images, and the size of said pasting frame where said cropping area is to be pasted in.

11. (original) An image system as recited in claim 9, wherein said frame modifying device may change the size and position of any of said pasting frames after an image is pasted in said pasting frame, and said resolution adjusting device readjusts the input resolution in accordance with the modified size of said pasting frame.

12. (original) An imaging system as recited in claim 7, wherein said template is selected from among a plurality of templates showing different layouts, and one of said plurality of templates has an outer frame and at least an inner frame as said pasting frames, and a first image pasted in said inner frame is superimposed on a second image that is pasted in said outer frame, and wherein said resolution adjusting device adjusts the input resolution for the first image in accordance with the input resolution for the second image.

13. (original) An imaging system as recited in claim 7, further comprising a storage device for storing said synthetic image as an image file consisting of image data of respective images as pasted in said pasting frames, and position data representative of relative positions of said pasting frames to each other.

14. (currently amended) An imaging system comprising a scanner, a monitor, an image processing device and a printer, said scanner having a pre-scanning mode for taking image data out of an original image at a low resolution to display a preview image on said monitor, and a fine scanning mode for taking image data out of said original image at a higher resolution,

wherein said image processing device produces an output image from said image data taken in said fine scanning mode, said imaging system further comprising:

a cropping area designating device for designating a cropping area of said original image on said preview image, said cropping area being scanned in said fine scanning mode; and

a resolution setting device for obtaining an optimum resolution for said fine scanning mode on the basis of a size of the designated cropping area, a print size of said cropping area and an output resolution of said printer, and setting said higher resolution of said scanner at a value that is determined by said optimum resolution,

said monitor displaying a main display area, a first sub display area, and a second sub display area simultaneously, and said main display area displaying an image as entered through said scanner, and a crop boundary on said entered image to designate a cropping area of said entered image, wherein image data of said cropping area is used for producing said output image, said first sub display area displaying a template image of a template that shows a layout for said output image, and said second sub display area displaying a thumbnail image of said entered image.

15. (original) An imaging system as recited in claim 14, wherein there are a plurality of predetermined input resolutions available for said scanner, and said resolution setting device sets said higher resolution of said scanner at one of said predetermined input resolutions that is the nearest to said optimum resolution, or less than and nearer to said optimum resolution, or more than and nearer to said optimum resolution.

16. (currently amended) An imaging system as recited in claim 15, wherein said monitor displays ~~[[a]]~~ said crop boundary on said preview image to show said cropping area as designated by said cropping area designating device, a size of said original image, a size of a recording sheet used in said printer, and ~~[[an]]~~ said template image of ~~a selected~~ said template, said template showing at least a pasting frame and a size and a position of said pasting frame relative to the recording sheet, wherein said cropping area may be pasted in said pasting frame by operating on said monitor.

17. (currently amended) An imaging system as recited in claim 16, wherein said ~~selected~~ template has a plurality of pasting frames, and said image processing device produces a synthetic image from a plurality of images entered through said scanner, by designating ~~[[a]]~~ said cropping area of each of said entered images and pasting said cropping area in a respective one of said pasting frames of said template.

18. (original) An imaging system as recited in claim 17, wherein said crop boundary displayed on said preview image has a similar shape to one of said pasting frames that is selected by selecting a corresponding frame of said template image.

19. (original) An imaging system as recited in claim 18, further comprising a frame modifying device for modifying the size or position of any of said pasting frames of said template by modifying the size or position of either said crop boundary or a corresponding frame of said template image.

20. (original) An imaging system as recited in claim 19, wherein said resolution setting device sets said higher resolution of said scanner for each of said entered images, in accordance with the output resolution of said printer, the size of said cropping area of each of said entered images, and the size of said pasting frame where said cropping area is to be pasted in.

21. (original) An image system as recited in claim 20, wherein said frame modifying device may change the size and position of any of said pasting frames after an image is pasted in said pasting frame, and said resolution setting device resets said higher resolution of said scanner in accordance with the modified size of said pasting frame.

22. (currently amended) An imaging system comprising:

- an image input device for entering an image data from an external data storage device that stores full-dressed image data of at least an image, and thumbnail image data of said image;
- a display device for displaying a thumbnail of said entered image on the basis of said thumbnail image data;
- a cropping area designating device for designating a cropping area of said entered image on said displayed thumbnail;
- a printer for printing said cropping area in a designated size on the basis of said full-dressed image data; and

a resolution converting device for converting resolution of said full-dressed image data into a value that is determined in accordance with an original size and the designated print size of said cropping area, and an output resolution of said printer,

said display device displaying a main display area, a first sub display area, and a second sub display area simultaneously, and said main display area displaying said entered image as entered through said image input device, and a crop boundary on said entered image to designate said cropping area of said entered image, wherein image data of said cropping area is used for producing said output image, said first sub display area displaying a template image of a template that shows a layout for said output image, and said second sub display area displaying said thumbnail image of said entered image.

23. (currently amended) An imaging system comprising:

a monitor ~~for displaying an image as entered through said image input device,~~

an image input device having a pre-scanning mode for generating first image data from an original image at a first resolution, and a fine scanning mode for generating second image data from said original image at a second resolution which is greater than said first resolution,

an image processing device for processing said first image data to correct color and gradation of the first image data to produce a first output image for display on said monitor and transferring correction parameters used to correct said color and said gradation to said image input device and processing said second image data to produce a second output image, wherein said image input device processes utilizes said correction parameters to generate said second image data;

an image output device for outputting said second output image as a hard copy or as data file, and

a resolution adjusting device for automatically adjusting said second resolution for said fine scanning mode in accordance with an output resolution of said image output device, a size of said second output image, and a size of said original image, and

said monitor displaying a main display area, a first sub display area, and a second sub display area simultaneously, and said main display area displaying an image as entered through said image input device, and a crop boundary on said entered image to designate a cropping area of said entered image, wherein image data of said cropping area is used for producing an output image, said first sub display area displaying a template image of a template that shows a layout for said output image, and said second sub display area displaying a thumbnail image of said entered image.

24. (currently amended) An imaging system comprising:

an image input device for entering image data from an image file,

an image processing device for processing said image data to produce an output image,

an image output device for outputting said output image as a hard copy or as data file,

[[and]]

a resolution adjusting device for automatically adjusting an input resolution of said image input device in accordance with an output resolution of said image output device, a size or data pixel number of said output image, and a data pixel number of said image file, and

a monitor for displaying a main display area, a first sub display area, and a second sub display area simultaneously, and said main display area displaying an image as entered through said image input device, and a crop boundary on said entered image to designate a cropping area of said entered image, wherein image data of said cropping area is used for producing said output image, said first sub display area displaying a template image of a template that shows a layout for said output image, and said second sub display area displaying a thumbnail image of said entered image.